

Please type a plus sign (+) inside this box → 

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. MI22-2261

First Inventor S. Moxham et al.

Title Methods of Forming Circuit...

Express Mail Label No. EV317136235

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 37]
  - Descriptive title of the invention includes title pg.
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (*if filed*)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [ Total Sheets 16 ]
- Oath or Declaration [ Total Pages 2 ]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63 (d))  
*(for continuation/divisional with Box 18 completed)*

i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)
8. Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all necessary*)
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement (*when there is an assignee*)  Power of Attorney
11.  English Translation Document (*if applicable*)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503) (*Should be specifically itemized*)
15.  Certified Copy of Priority Document(s) (*if foreign priority is claimed*)
16.  Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: *Check for fees.....*

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation     Divisional     Continuation-in-part (CIP)

of prior application No. \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

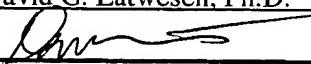
Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS** Customer Number or Bar Code Label021567  
(Insert Customer No. or Attach bar code label here)

or

 Correspondence address below

Name			
Address			
City	State	Zip Code	
Country	Telephone	Fax	
Name (Print/Type)	David G. Latwesen, Ph.D.		Registration No. (Attorney/Agent) 38,533
Signature			Date July 3, 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

21905 U.S. Pro  
10/6/2007

07/03/03

17707 U.S. PTO  
07/03/03

EV317136235

PTO/SB/17 (12/99)

Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision.  
Small Entity payments must be supported by a small entity statement,  
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.  
See 37 C.F.R. §§ 1.27 and 1.28.

**TOTAL AMOUNT OF PAYMENT** (\$1,384.00)

## Complete if Known

Application Number	Filed herewith
Filing Date	
First Named Inventor	S. F. Moxham et al.
Examiner Name	
Group / Art Unit	
Attorney Docket No.	MI22-2261

METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)																																																																																																																																																																																											
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number <b>23-0925</b></p> <p>Deposit Account Name <b>Wells St. John</b></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p>				<p><b>3. ADDITIONAL FEES</b></p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath 0.00</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet. 0.00</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification 0.00</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination 0.00</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action 0.00</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action 0.00</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month 0.00</td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month 0.00</td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month 0.00</td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month 0.00</td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month 0.00</td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal 0.00</td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal 0.00</td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing 0.00</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding 0.00</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable 0.00</td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional 0.00</td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue) 0.00</td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee 0.00</td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee 0.00</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner 0.00</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications 0.00</td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt 0.00</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties) 40.00</td></tr> <tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection (37 CFR § 1.129(a)) 0.00</td></tr> <tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR § 1.129(b)) 0.00</td></tr> <tr><td colspan="5">Other fee (specify) _____ 0.00</td></tr> <tr><td colspan="5">Other fee (specify) _____ 0.00</td></tr> <tr> <td colspan="4"><b>SUBTOTAL (1) (\$ 750.00)</b></td> <td><b>SUBTOTAL (3) (\$ 40.00)</b></td> </tr> <tr> <td colspan="5"> <p>*or number previously paid, if greater; For Reissues, see below</p> <p>Large Entity Small Entity</p> <table border="1"> <thead> <tr> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20 0.00</td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3 0.00</td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid 0.00</td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent 0.00</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent 0.00</td></tr> </tbody> </table> <p><b>SUBTOTAL (2) (\$ 594.00)</b></p> </td> </tr> </tbody> </table>					Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath 0.00	127	50	227	25	Surcharge - late provisional filing fee or cover sheet. 0.00	139	130	139	130	Non-English specification 0.00	147	2,520	147	2,520	For filing a request for reexamination 0.00	112	920*	112	920*	Requesting publication of SIR prior to Examiner action 0.00	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action 0.00	115	110	215	55	Extension for reply within first month 0.00	116	380	216	190	Extension for reply within second month 0.00	117	870	217	435	Extension for reply within third month 0.00	118	1,360	218	680	Extension for reply within fourth month 0.00	128	1,850	228	925	Extension for reply within fifth month 0.00	119	300	219	150	Notice of Appeal 0.00	120	300	220	150	Filing a brief in support of an appeal 0.00	121	260	221	130	Request for oral hearing 0.00	138	1,510	138	1,510	Petition to institute a public use proceeding 0.00	140	110	240	55	Petition to revive - unavoidable 0.00	141	1,210	241	605	Petition to revive - unintentional 0.00	142	1,210	242	605	Utility issue fee (or reissue) 0.00	143	430	243	215	Design issue fee 0.00	144	580	244	290	Plant issue fee 0.00	122	130	122	130	Petitions to the Commissioner 0.00	123	50	123	50	Petitions related to provisional applications 0.00	126	240	126	240	Submission of Information Disclosure Stmt 0.00	581	40	581	40	Recording each patent assignment per property (times number of properties) 40.00	146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a)) 0.00	149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b)) 0.00	Other fee (specify) _____ 0.00					Other fee (specify) _____ 0.00					<b>SUBTOTAL (1) (\$ 750.00)</b>				<b>SUBTOTAL (3) (\$ 40.00)</b>	<p>*or number previously paid, if greater; For Reissues, see below</p> <p>Large Entity Small Entity</p> <table border="1"> <thead> <tr> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20 0.00</td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3 0.00</td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid 0.00</td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent 0.00</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent 0.00</td></tr> </tbody> </table> <p><b>SUBTOTAL (2) (\$ 594.00)</b></p>					Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20 0.00	102	78	202	39	Independent claims in excess of 3 0.00	104	260	204	130	Multiple dependent claim, if not paid 0.00	109	78	209	39	** Reissue independent claims over original patent 0.00	110	18	210	9	** Reissue claims in excess of 20 and over original patent 0.00
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																																												
105	130	205	65	Surcharge - late filing fee or oath 0.00																																																																																																																																																																																											
127	50	227	25	Surcharge - late provisional filing fee or cover sheet. 0.00																																																																																																																																																																																											
139	130	139	130	Non-English specification 0.00																																																																																																																																																																																											
147	2,520	147	2,520	For filing a request for reexamination 0.00																																																																																																																																																																																											
112	920*	112	920*	Requesting publication of SIR prior to Examiner action 0.00																																																																																																																																																																																											
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action 0.00																																																																																																																																																																																											
115	110	215	55	Extension for reply within first month 0.00																																																																																																																																																																																											
116	380	216	190	Extension for reply within second month 0.00																																																																																																																																																																																											
117	870	217	435	Extension for reply within third month 0.00																																																																																																																																																																																											
118	1,360	218	680	Extension for reply within fourth month 0.00																																																																																																																																																																																											
128	1,850	228	925	Extension for reply within fifth month 0.00																																																																																																																																																																																											
119	300	219	150	Notice of Appeal 0.00																																																																																																																																																																																											
120	300	220	150	Filing a brief in support of an appeal 0.00																																																																																																																																																																																											
121	260	221	130	Request for oral hearing 0.00																																																																																																																																																																																											
138	1,510	138	1,510	Petition to institute a public use proceeding 0.00																																																																																																																																																																																											
140	110	240	55	Petition to revive - unavoidable 0.00																																																																																																																																																																																											
141	1,210	241	605	Petition to revive - unintentional 0.00																																																																																																																																																																																											
142	1,210	242	605	Utility issue fee (or reissue) 0.00																																																																																																																																																																																											
143	430	243	215	Design issue fee 0.00																																																																																																																																																																																											
144	580	244	290	Plant issue fee 0.00																																																																																																																																																																																											
122	130	122	130	Petitions to the Commissioner 0.00																																																																																																																																																																																											
123	50	123	50	Petitions related to provisional applications 0.00																																																																																																																																																																																											
126	240	126	240	Submission of Information Disclosure Stmt 0.00																																																																																																																																																																																											
581	40	581	40	Recording each patent assignment per property (times number of properties) 40.00																																																																																																																																																																																											
146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a)) 0.00																																																																																																																																																																																											
149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b)) 0.00																																																																																																																																																																																											
Other fee (specify) _____ 0.00																																																																																																																																																																																															
Other fee (specify) _____ 0.00																																																																																																																																																																																															
<b>SUBTOTAL (1) (\$ 750.00)</b>				<b>SUBTOTAL (3) (\$ 40.00)</b>																																																																																																																																																																																											
<p>*or number previously paid, if greater; For Reissues, see below</p> <p>Large Entity Small Entity</p> <table border="1"> <thead> <tr> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20 0.00</td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3 0.00</td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid 0.00</td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent 0.00</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent 0.00</td></tr> </tbody> </table> <p><b>SUBTOTAL (2) (\$ 594.00)</b></p>					Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20 0.00	102	78	202	39	Independent claims in excess of 3 0.00	104	260	204	130	Multiple dependent claim, if not paid 0.00	109	78	209	39	** Reissue independent claims over original patent 0.00	110	18	210	9	** Reissue claims in excess of 20 and over original patent 0.00																																																																																																																																																														
Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																																												
103	18	203	9	Claims in excess of 20 0.00																																																																																																																																																																																											
102	78	202	39	Independent claims in excess of 3 0.00																																																																																																																																																																																											
104	260	204	130	Multiple dependent claim, if not paid 0.00																																																																																																																																																																																											
109	78	209	39	** Reissue independent claims over original patent 0.00																																																																																																																																																																																											
110	18	210	9	** Reissue claims in excess of 20 and over original patent 0.00																																																																																																																																																																																											

SUBMITTED BY		Complete if applicable		
Name (Print/Type)	David G. Latwesen, Ph.D.	Registration No. (Attorney/Agent)	38,533	Telephone 509-624-4276
Signature				Date July 3, 2003

## WARNING:

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.